

U.S. PATENT & TRADEMARK OFFICE
AUG 15 2001

<213> Corynebacterium glutamicum

<220>
 <221> -35_signal
 <222> (774)..(779)

<220>
 <221> -10_signal
 <222> (798)..(803)

<220>
 <221> CDS
 <222> (851)..(1594)

<400> 2

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 tccggtatcg atacctggaa cgacaacctg atcaggatat ccagtgcctt gaattattgac 180
 gttgaggaag gaatcaccag ccattctcaac tggaagacct gacgcctgct gaattggatc 240
 agtggcccaa tcgaccacc aaccagggtg gccattaccg gcgatatcaa aaacaactcg 300
 tgtgaacgtt tcgtgctcgg caacgcggat gccagcgatc gacatatcgg agtcaccaac 360
 ttgagcctgc tgcttctgat ccacgcacgg ggaacccaac ggcggaag cagtggggga 420
 aggggggagt ttggtgcact ctgaaccgag tgggtctctga agtggtaggc gacggggcag 480
 ctatctgaag gcgtgcgagt tgtggtgacc ggggttagcgg ttccagtttc tgtcacaact 540
 ggagcaggac tagcagaggt tgtaggcgtt gagccgcttc catcacaagc acttaaaagt 600
 aaagaggcgg aaaccacaag cgccaaggaa ctactgcgga acgggcggtg aagggaact 660
 taagtctcat atttcaaaca tagttccacc tgtgtgatta atccctagaa cggaacaaac 720
 tgatgaacaa tcgttaacaa cacagaccaa aacggtcagt taggtatgga taccagcacc 780
 ttctgaacgg gtacgtctag actggtgggc gtttgaaaaa ctcttcgccc cagaaaatg 840
 aaggagcata atg gga atc aag gtt ggc gtt ctc gga gcc aaa ggc cgt 889
 Met Gly Ile Lys Val Gly Val Leu Gly Ala Lys Gly Arg
 1 5 10
 gtt ggt caa act att gtg gca gca gtc aat gag tcc gac gat ctg gag 937
 Val Gly Gln Thr Ile Val Ala Ala Val Asn Glu Ser Asp Asp Leu Glu
 15 20 25
 ctt gtt gca gag atc ggc gtc gac gat gat ttg agc ctt ctg gta gac 985
 Leu Val Ala Glu Ile Gly Val Asp Asp Asp Leu Ser Leu Leu Val Asp
 30 35 40 45
 aac ggc gct gaa gtt gtc gtt gac ttc acc act cct aac gct gtg atg 1033
 Asn Gly Ala Glu Val Val Val Asp Phe Thr Thr Pro Asn Ala Val Met
 50 55 60

00440004 00440004

Al
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a!
cont.

<210> 3
 <211> 248
 <212> PRT
 <213> Corynebacterium glutamicum

<400> 3
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 1 5 10 15
 Thr Ile Val Ala Ala Val Asn Glu Ser Asp Asp Leu Glu Leu Val Ala
 20 25 30
 Glu Ile Gly Val Asp Asp Asp Leu Ser Leu Leu Val Asp Asn Gly Ala
 35 40 45
 Glu Val Val Val Asp Phe Thr Thr Pro Asn Ala Val Met Gly Asn Leu
 50 55 60
 Glu Phe Cys Ile Asn Asn Gly Ile Ser Ala Val Val Gly Thr Thr Gly
 65 70 75 80
 Phe Asp Asp Ala Arg Leu Glu Gln Val Arg Asp Trp Leu Glu Gly Lys
 85 90 95
 Asp Asn Val Gly Val Leu Ile Ala Pro Asn Phe Ala Ile Ser Ala Val
 100 105 110
 Leu Thr Met Val Phe Ser Lys Gln Ala Ala Arg Phe Phe Glu Ser Ala
 115 120 125
 Glu Val Ile Glu Leu His His Pro Asn Lys Leu Asp Ala Pro Ser Gly
 130 135 140
 Thr Ala Ile His Thr Ala Gln Gly Ile Ala Ala Ala Arg Lys Glu Ala
 145 150 155 160
 Gly Met Asp Ala Gln Pro Asp Ala Thr Glu Gln Ala Leu Glu Gly Ser
 165 170 175
 Arg Gly Ala Ser Val Asp Gly Ile Pro Val His Ala Val Arg Met Ser
 180 185 190
 Gly Met Val Ala His Glu Gln Val Ile Phe Gly Thr Gln Gly Gln Thr
 195 200 205
 Leu Thr Ile Lys Gln Asp Ser Tyr Asp Arg Asn Ser Phe Ala Pro Gly
 210 215 220
 Val Leu Val Gly Val Arg Asn Ile Ala Gln His Pro Gly Leu Val Val
 225 230 235 240
 Gly Leu Glu His Tyr Leu Gly Leu
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<210> 4
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105750:105750

a!
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<212> DNA

<213> Corynebacterium glutamicum

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<223> dapA wild-type promoter

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tatgagcaca ggtttaaca 79

<210> 5

<211> 79

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
dapA promoter of C. glutamicum with the
MC20 mutation

<220>

<221> mutation

<222> (45)

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tatgagcaca ggtttaaca 79

<210> 6

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
dapA promoter of C. glutamicum with the
MA16 mutation

<220>

<221> mutation

<222> (35)..(53)

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Artificial
Primer

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<220>
<223> Description of Artificial Sequence: Artificial
Primer

27

19

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Primer

19

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Primer

24

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 <213> Artificial Sequence

<220>
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 Primer

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<210> 13
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Artificial
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<210> 14
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<220>
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<210> 15
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<220>
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105130-42307350

a!
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<223> Description of Artificial Sequence: Artificial
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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Artificial
Primer

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<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Artificial
Primer

<400> 18

gtgctcatag agttcaatta taccttcttc cctcatttgg

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FBI
JAN 10 1980